



## GREEN 83° SHORE A ESTER POLYURETHANE

High-resistance polyurethane liner against strong sliding, cutting and impact wear with the highest possible split-tear resistance combined with great elasticity and abrasion-resistance for rough product up to 50 mm lump size. This version does not absorb moisture and is therefore almost adhesion-free and guarantees good product through flow.

### TECHNICAL SPECIFICATIONS KRYPTANE GREEN® 83° SHORE A

	Unit	Value
<b>Mechanical properties</b>		
Hardness shore A (+/-5°)	°	83°
100% elasticity modulus	N/mm <sup>2</sup>	5.52
300% elasticity modulus	N/mm <sup>2</sup>	8.72
500% elasticity modulus	N/mm <sup>2</sup>	23.53
Tensile strength (break)	N/mm <sup>2</sup>	45.51
Angle tear strength (break)	N/m	50.84
Trouser tear strength (break)	N/m	28.25
Elongation	%	600
Elasticity	%	53
Compression set	%	32
Abrasion loss Din 53516	mm <sup>3</sup>	43
Density	kg/dm <sup>3</sup>	1.21
Coefficient of friction dry		0.27
<b>Temperature resistance</b>		
Max. operating temperature	°C.	80°
Min. operating temperature	°C.	-30°
Combustion temperature	°C.	430°
Flashpoint	none	
Melting point	°C.	200°

#### Chemical properties

Good resistance to low acid concentrations and lye, food additives, fats, formwork oil, ozone and UV

Electrical resistance - Flame-retardant - Food quality FDA

Static electricity - miniscule / Flame-retardant ISO 340 - no / Food quality FDA - yes

#### Various polyurethane test rigs



Tensile strength



Angle tear strength



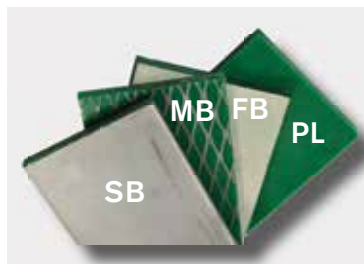
Trouser tear strength



Resilience/Rebound



Abrasion



#### Kryptane polyurethane carrier

- Type PL without carrier, full PU
- Type FB approx 1.5-mm-thick fabric layer for adhesive fixing
- Type MB approx 1.5-mm-thick integrated stretched metal for fixing with bolts
- Type SB approx 2-mm full solid steel base

#### Available from stock in standard sheet dimensions 3050 x 1220 mm

- Type PL in 8, 10, 12 and 18-mm-thick PU
- Type FB in 6, 8, 12 and 18-mm-thick PU (total thickness incl carrier 7.5, 9.5, 13.5 and 19.5 mm)
- Type MB in 6 and 8-mm-thick PU
- Type SB in 6 and 8 mm thick (total thickness incl. carrier 8 and 10 mm) (Tolerance at a polyurethane thickness of +/-1.3 mm)

#### Advantages

- extreme abrasion-resistance
- no moisture absorption
- highly noise attenuating
- adhesion-free
- excellent product through flow
- extremely long service life

#### Applications

Concrete mixers, weighing bunkers, silos, pipework systems, chutes, hoppers (sand, gravel and minerals), tip-over and drop points, scrapers, elevators and skirting for belt conveyors, etc.



Not binding, subject to change. Version 2017 / 1.1